

Grade 5 City Planning Math Task

2015-2016 NYC Baseline Performance Tasks

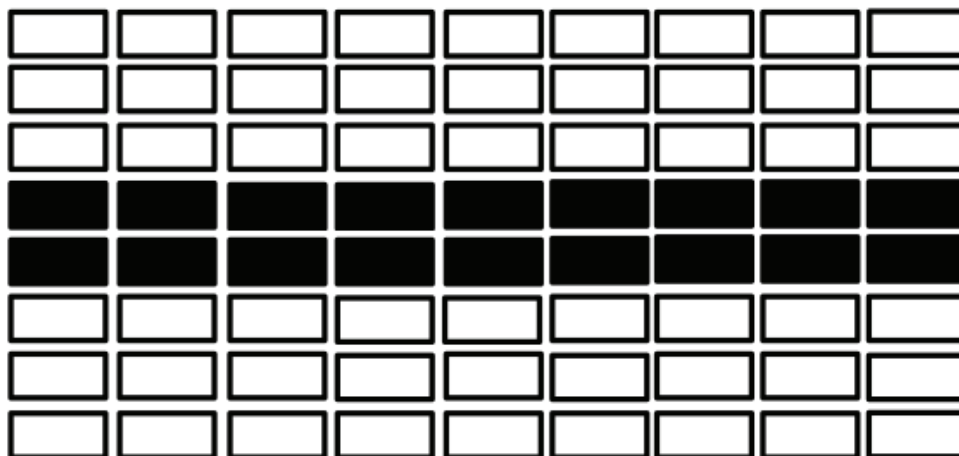
Instructions

- Tasks may not be shared with students prior to administration.
- Fall baseline tasks may be administered and scored by the regular classroom teacher.
- Distribute one task booklet to each student.
- All student work should be completed in the task booklet. All student work in the task booklet should be scored, regardless of whether the student completed or attempted every question.
- Students should have 90 minutes to complete the task, not including the distribution and collection of materials.
- Depending on school scheduling, administration may occur over 1-2 days. Administration conditions (i.e., the amount of time students have to complete the task, etc.) should be consistent across all classrooms in the school administering the above-named NYC Performance Task.
- Students should receive all accommodations normally provided for a class or state test.
- For complete administration information, see the Baseline Assessment Administration Handbook.

City Planning

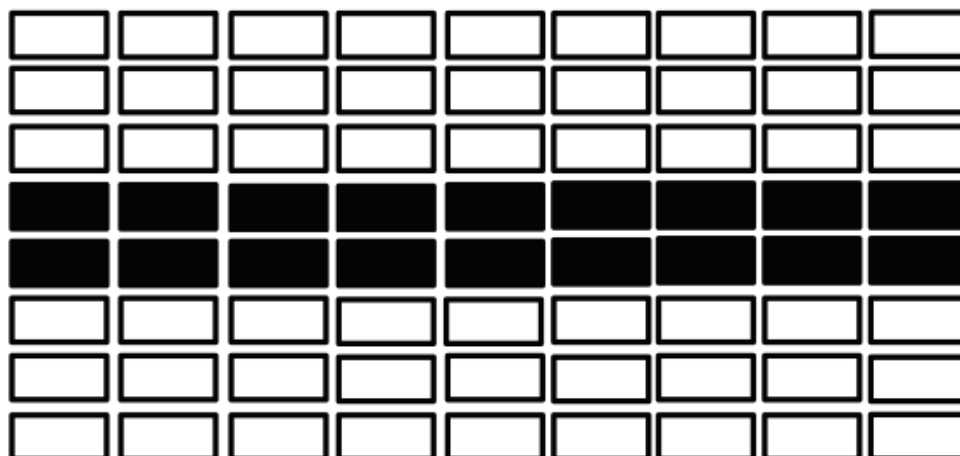


Cities that are planned tend to be built on a grid, as parts of New York City were. Each city block is usually the same size, but blocks can also be combined for different needs. A city plan gives instructions for how the city should be built and how much of the city will be used for different purposes. A new city is being planned with the following grid of city blocks:



- 1 The section in the middle (black) will be used for businesses. What fraction of the city is planned for business? _____

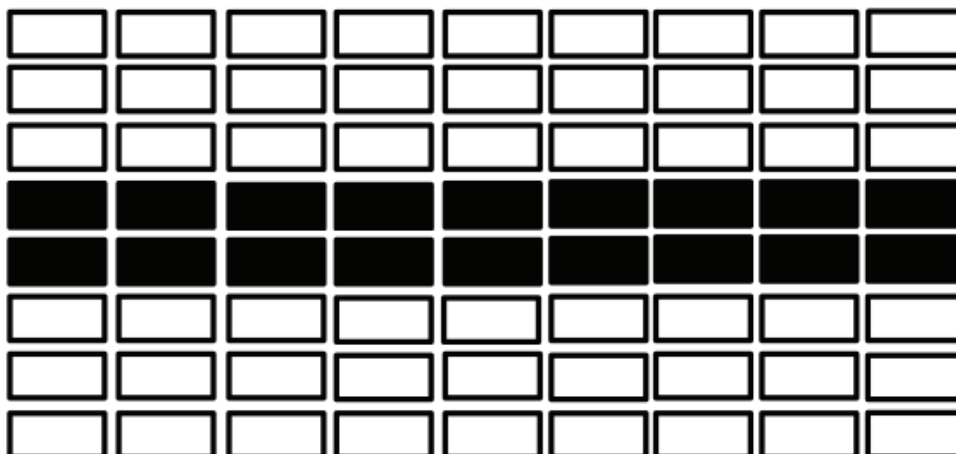
Name: _____ Date: _____



- ② The city plan says that $\frac{1}{8}$ of the city will be for parks. So far, $\frac{1}{12}$ of the city is already used for parks. What fraction of the city still needs to become parks? _____

Show your work.

Name: _____ Date: _____



- 3 The city plan says that $\frac{1}{6}$ of the city will be used for other public services besides parks. Combined with the $\frac{1}{8}$ of the city used for parks, what fraction of the city will be used for public services? _____

Show your work.

Name: _____ Date: _____

- 4 People will need places to live, so $\frac{3}{8}$ of the city will be used for housing. Of this fraction, $\frac{1}{3}$ will be apartments. What fraction of the city will be used for apartments? _____

Show your work.

Name: _____ Date: _____

- 5 $\frac{3}{8}$ of the city is currently being used for housing. $\frac{1}{12}$ of the city is being saved for additional housing. In total, how much of the city will be used for housing? _____

Use estimation to explain your work.

Name: _____ **Date:** _____

- 6** There are 18 business blocks in the middle of the city, and they are owned equally by 5 people.

How many blocks does each person own? _____

Show your work.

Name: _____ Date: _____

- 7 There are 9 city blocks chosen for housing on Elm Street. Each house lot is $\frac{1}{10}$ of a block. How many houses are on Elm Street? _____

Show your work.

Name: _____ Date: _____

- 8 Some of the business blocks are divided into $\frac{1}{8}$ -sized lots. The owner of one of the lots is going to divide the lot into 4 small businesses. What fraction of the whole block would one of these businesses occupy? _____

Show your work.